

ORGANIC ELECTROLUMINESCENT ELEMENT

Patent number: WO9205131

Publication date: 1992-04-02

Inventor: HIGASHI HISAHIRO (JP); HOSOKAWA CHISHIO (JP); TOKAILIN HIROSHI (JP)

Applicant: IDEMITSU KOSAN CO (JP)

Classification:

- **International:** C07C1/32; C07C13/28; C07C15/50; C07C41/01; C07C43/243; C07C45/68; C07C49/84; C07D209/86; C07D521/00; C09B23/14; C09K11/06; H05B33/22

- **european:** C09K11/06; H05B33/14; C07C43/215B; C07C43/285; C07C45/00G; C07C45/51B4; C07C47/548; C07C47/575; C07C49/782; C07C49/813; C07C49/84; C07D209/86; C07D213/30C; C07D215/04B; C07D215/14; C07D241/12C; C07D401/14R; C07D403/14R; C07D409/14R

Application number: WO1991JP01228 19910917

Priority number(s): JP19900248749 19900920; JP19900279304 19901019

Also published as:

EP0502202 (A)
US5366811 (A)
EP0502202 (A)

Cited documents:

JP2292371
JP2285356
JP3230584
JP52046057
US3810879

Abstract not available for WO9205131

Abstract of corresponding document: EP0502202

An organic electroluminescent element comprising a dimeric stryryl compound represented by general formula (I) as the luminescent material, wherein D, D', E, E', F, F', G, G' and Q are each as defined in the specification. The dimeric stryryl compound used is one prepared by bonding two molecules of a compound having a good luminescence efficiency and a desirable luminescence wavelength to each other via a divalent group which breaks a conjugated system without impairing the abilities of the compound to thereby increase the molecular weight (to dimerize) and improve the properties as thin film. Therefore this element is widely applicable as various display materials.

<CHEM>

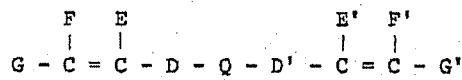
Data supplied from the **esp@cenet** database - Worldwide

特許協力条約に基づいて公開された国際出願

(51) 国際特許分類 5 C07C 13/28, 15/50, 1/32 C07C 43/243, 41/01, 49/84 C07C 45/68, C07D 209/86 C07D 521/00, C09K 11/06 C09B 23/14, H05B 33/22	A1	(11) 国際公開番号 (43) 国際公開日 WO 92/05131 1992年4月2日 (02.04.1992)
(21) 国際出願番号 PCT/JP91/01228 (22) 国際出願日 1991年9月17日 (17. 09. 91)		(81) 指定国 AT (欧州特許), BE (欧州特許), CH (欧州特許), DE (欧州特許), DK (欧州特許), ES (欧州特許), FR (欧州特許), GB (欧州特許), GR (欧州特許), IT (欧州特許), JP, LU (欧州特許), NL (欧州特許), SE (欧州特許), US.
(30) 優先権データ 特願平2/248749 1990年9月20日 (20. 09. 90) JP 特願平2/279304 1990年10月19日 (19. 10. 90) JP		添付公開書類 国際調査報告書
(71) 出願人 (米国を除くすべての指定国について) 出光興産株式会社 (IDEMITSU KOSAN CO., LTD.) [JP/JP] 〒100 東京都千代田区丸の内三丁目1番1号 Tokyo, (JP)		
(72) 発明者 ; および (75) 発明者 / 出願人 (米国についてのみ) 東 久洋 (HIGASHI, Hisahiro) [JP/JP] 細川地潮 (HOSOKAWA, Chishio) [JP/JP] 東海林弘 (TOKAILIN, Hiroshi) [JP/JP] 〒299-02 千葉県袖ヶ浦市上泉1280番地 出光興産株式会社内 Chiba, (JP)		
(74) 代理人 弁理士 大谷 保 (OHTANI, Tamotsu) 〒105 東京都港区虎ノ門5丁目10番13号 マガタニビル4階 Tokyo, (JP)		

(54) Title : ORGANIC ELECTROLUMINESCENT ELEMENT

(54) 発明の名称 有機エレクトロルミネッセンス素子



(I)

(57) Abstract

An organic electroluminescent element comprising a dimeric stryryl compound represented by general formula (I) as the luminescent material, wherein D, D', E, E', F, F', G, G' and Q are each as defined in the specification. The dimeric stryryl compound used is one prepared by bonding two molecules of a compound having a good luminescence efficiency and a desirable luminescence wavelength to each other via a divalent group which breaks a conjugated system without impairing the abilities of the compound to thereby increase the molecular weight (to dimerize) and improve the properties as thin film. Therefore this element is widely applicable as various display materials.